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New dendrimer(s) having terminal phosphorus-contg. groups

Index Terms: CORE; GRAFTING; DENDRIMER; PHOSPHINE; SUBSTITUTION; ADDITION; PHOSPHATE; PHOSPHONATE; PHOSPHINATE; PHOSPHORANE; SPIROPHOSPHORANE; DENDRITE ARM; CATALYST; STARBURST STRUCTURE; FUNCTIONAL GROUP CONTAINING; PHOSPHORUS

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



New functional dendrimers comprises a molecule of a base dendrimer formed of a core, and at least four layers of dendritic branches superimposed over this and defining at the molecule surface one or more peripheral terminal sites. It has at least a plurality of identical complementary functional gps., each group being distinct from a dendritic branch, and each plurality of gps. being grafted by substitution or addition on all of at least one terminal peripheral site of the base dendrimer. At least one of the gps. carries a functional phosphorus group of formula R-P; where P is one of -P(R1)(R1'), -P(=Y1)(R2)(R2'), -P(?>M)(R3)(R3'), -O-P(=Y2)(R4)(R4'), -P(R5)(R5')(R5'') or a gp. (i); R1, R1' = H, amino, alkyl, aryl, alkoxy or aryloxy; R2, R2', R3, R3' = H, halogen, hydroxy, amino, alkyl, aryl, alkoxy or aryloxy, or an alkyl or aryl radical substd by at least one silylated or phosphorylated group; M = a metal or a metallic or boron group that can complex with the phosphorus; R4, R4' = H, halogen, hydroxy, amino, alkyl, aryl, alkoxy or aryloxy; Y1 = O, S or N-R11; R11 = H, alkyl, aryl, or a silylated group; Y2 = O, S, an electron doublet, or NR11; R5, R5', R5'', R5''' = H, amino, alkyl, alkoxy, aryloxy, or aryl; R6, R6' = 4 - 6 membered homocyclic or heterocyclic chains closed through the P atom; and R = a group containing a carbon attached to the functional group P and attached through a covalent bond to the rest of the dendrimer molecule thus formed.

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FamPat family

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